

SIDE VIEW

**NOTES:**

1. Base dimensions (b) and height (h) to be approximately equal.
2. Use 5-sack cement concrete. Calcium additive not allowed.
3. Do not exceed calculated size by more than 10% .
4. Wrap fittings in 6-mil plastic. Concrete shall not interfere with flange bolt removal.

5. Block size determined by  $B_v = T/W_c$

Where :

$B_v$  = Volume in cubic feet

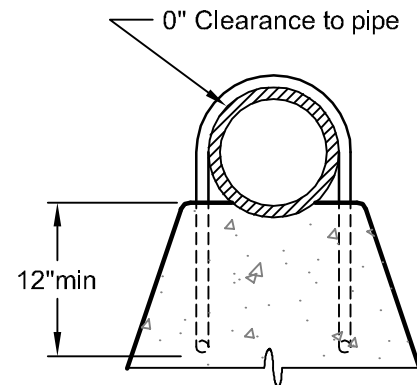
T = Vertical force element =  $PA \sin Q$

$W_c$  = Weight per cubic foot of concrete  
(150 lb./cu. ft.)

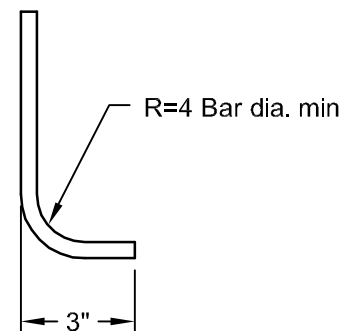
P = Test pressure at block elevation (psi)

A = Cross-sectional area of pipe (sq. in.)

Q = Fitting angle  $Q \leq 45$  degrees .



HOOP DETAILS



BAR BENDING DIAGRAM

AutoCAD: Thrust Block - Gravity

DRR

# GRAVITY THRUST BLOCK DESIGN

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